

(FILE 'HOME' ENTERED AT 14:07:59 ON 22 APR 2003)

FILE 'CAPLUS, USPATFULL' ENTERED AT 14:08:12 ON 22 APR 2003

L1 399667 FILE CAPLUS
L2 139474 FILE USPATFULL
TOTAL FOR ALL FILES
L3 539141 S UVA OR UVB OR (ULTRA? (5A) RADIATION?) OR ("UV")
L4 397217 FILE CAPLUS
L5 117033 FILE USPATFULL
TOTAL FOR ALL FILES
L6 514250 S L3 NOT "360"
L7 398292 FILE CAPLUS
L8 125418 FILE USPATFULL
TOTAL FOR ALL FILES
L9 523710 S L3 NOT "370"
L10 397703 FILE CAPLUS
L11 123154 FILE USPATFULL
TOTAL FOR ALL FILES
L12 520857 S L3 NOT "380"
L13 398550 FILE CAPLUS
L14 127190 FILE USPATFULL
TOTAL FOR ALL FILES
L15 525740 S L3 NOT "390"
L16 393189 FILE CAPLUS
L17 98127 FILE USPATFULL
TOTAL FOR ALL FILES
L18 491316 S L6 AND L9 AND L12 AND L15
L19 0 FILE CAPLUS
L20 0 FILE USPATFULL
TOTAL FOR ALL FILES
L21 0 S L18 AND ("370" OR "380" OR "390") AND ("310" OR "320")
L22 0 FILE CAPLUS
L23 0 FILE USPATFULL
TOTAL FOR ALL FILES
L24 0 S L18 AND ("370" OR "380" OR "390")
L25 0 FILE CAPLUS
L26 0 FILE USPATFULL
TOTAL FOR ALL FILES
L27 0 S L18 AND ("370")
L28 10 FILE CAPLUS
L29 4 FILE USPATFULL
TOTAL FOR ALL FILES
L30 14 S L18 AND ("370NM")
L31 25 FILE CAPLUS
L32 9 FILE USPATFULL
TOTAL FOR ALL FILES
L33 34 S L18 AND ("370NM" OR "380NM" OR "390NM")
L34 416 FILE CAPLUS
L35 3012 FILE USPATFULL
TOTAL FOR ALL FILES
L36 3428 S RERADIAT? OR RE-RADIAT?
L37 61 FILE CAPLUS
L38 372 FILE USPATFULL
TOTAL FOR ALL FILES
L39 433 S L36 AND L3
L40 0 FILE CAPLUS
L41 5 FILE USPATFULL
TOTAL FOR ALL FILES
L42 5 S L39 AND (SUBBLOCK? OR SUN-BLCO? OR SUNSCREEN? OR SUN-SCREEN?)
L43 416 FILE CAPLUS
L44 3012 FILE USPATFULL
TOTAL FOR ALL FILES
L45 3428 S RERADIAT? OR RE-RADIAT?
L46 0 FILE CAPLUS

L47 8 FILE USPATFULL
TOTAL FOR ALL FILES
L48 8 S L45 AND (SUBBLOCK? OR SUN-BLCO? OR SUNSCREEN? OR SUN-SCREEN?)
L49 0 FILE CAPLUS
L50 3 FILE USPATFULL
TOTAL FOR ALL FILES
L51 3 S L48 NOT L42

=> s l45 and ("370nm" or "380nm" or "390nm")
L52 0 FILE CAPLUS
L53 0 FILE USPATFULL

TOTAL FOR ALL FILES
L54 0 L45 AND ("370NM" OR "380NM" OR "390NM")

o the passenger cabin where it is not wanted. Shades or **sun screens** positioned adjacent inside surfaces of windows, such as those taught by Miller, U.S. patent No. 4,790,591, provide protection against deterioration of interior passenger cabin components, such as plastics, that are susceptible to ultraviolet light and reduces some heat build-up by reflecting ultraviolet light back through the window to the outside. However, not only do such shades and **sun screens** also absorb solar energy and dissipate such absorbed energy inside the passenger cabin as heat, but much of the solar radiation reflected by the shades or **sun screens** back to the window is also absorbed by the window and results in adding to heat build-up in the passenger cabin, as described above.

ACCESSION NUMBER:	2000061397 PCTFULL ED 20020515		
TITLE (ENGLISH):	VEHICLE CABIN COOLING SYSTEM		
TITLE (FRENCH):	SYSTEME DE REFROIDISSEMENT D'HABITACLE DE VEHICULE		
INVENTOR(S):	FARRINGTON, Robert, B.;		
	ANDERSON, Ren		
PATENT ASSIGNEE(S):	MIDWEST RESEARCH INSTITUTE;		
	FARRINGTON, Robert, B.;		
	ANDERSON, Ren		
LANGUAGE OF PUBL.:	English		
DOCUMENT TYPE:	Patent		
PATENT INFORMATION:			
	NUMBER	KIND	DATE

	WO 2000061397	A1	20001019
DESIGNATED STATES			

L189 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2003 ACS
 AN 1994:517308 CAPLUS
 DN 121:117308
 TI **Sunscreens**: Development, Evaluation, and Regulatory Aspects
 (Sansukurinzai to Hifu Kagaku: Koshohin no Kenkyu Kaihatsu to Hyokaho
 oyobi Kisei ni tsuite)
 AU Lowe, Nicholas J.; **Shaath, Nadim A.**; Editors
 CS Japan
 SO (1993) Publisher: (Fragrance Journal Ltd., Tokyo, Japan), 720 pp.
 .yen.16,000. Translated from: Eng
 DT Book
 LA Japanese
 CC 62-4 (Essential Oils and Cosmetics)
 Section cross-reference(s): 8
 AB Unavailable
 ST book **sunscreen** regulatory
 IT **Sunscreens**
 (development and evaluation and regulatory aspects of)

L189 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2003 ACS
 AN 1991:171019 CAPLUS
 DN 114:171019
 TI Photodegradation of **sunscreen** chemicals: Solvent considerations
 AU **Shaath, Nadim A.**; Fares, Hani M.; Klein, Kenneth
 CS Kato Worldwide, Mount Vernon, NY, 10553, USA
 SO Cosmetics & Toiletries (1990), 105(12), 41-4
 CODEN: CTOIDG; ISSN: 0361-4387
 DT Journal
 LA English
 CC 62-4 (Essential Oils and Cosmetics)
 AB The degree to which commonly used **sunscreens**, e.g.,
 benzophenone-3 and benzophenone-8, would degrade when subjected to UV
 light and the effect of solvents on the photodegrdn. were studied. The
sunscreens were evaluated at the 200-ppm levels at the irradsn.
 level 5 min. erythema dose. Salicylates, Me anthranilate, octocrylene
 and benzophenones showed excellent photostability. The dibenzoylmethanes
 and octyldimethyl p-aminobenzoate showed significant degrdn. in nonpolar
 solvents (mineral oil) and no degrdn. in polar solvents (EtOH/H2O mixt.).
 The **sunscreens** that showed photostability lacked any significant
 solvent shifts after irradsn.
 ST solvent **sunscreen** photolysis
 IT Photolysis
 (of **sunscreens**, solvents effect on)
 IT Solvent effect
 (on photolysis of **sunscreens**)
 IT Paraffin oils
 RL: BIOL (Biological study)
 (photolysis of **sunscreens** in relation to)
 IT Sunburn and Suntan
 (**sunscreens**, photolysis of, solvents effect on)
 IT 64-17-5, Ethanol, uses and miscellaneous 110-27-0, Isopropyl myristate
 RL: USES (Uses)
 (photolysis of **sunscreens** in relation to)
 IT 118-56-9 118-60-5, Octyl salicylate 131-53-3, Benzophenone-8
 131-57-7, Benzophenone-3 134-09-8, Menthyl anthranilate 6197-30-4,
 Octocrylene 21245-02-3 63250-26-0 96436-87-2, Octyl
 p-methoxycinnamate 112725-59-4, Butylmethoxydibenzoylmethane
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (photolysis of, solvents effect on)

L189 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2003 ACS
 AN 1991:171003 CAPLUS
 DN 114:171003

TI Stability and efficacy of **UV-filters**
AU **Shaath, Nadim A.**
CS Felton Worldwide, USA
SO Seifen, Oele, Fette, Wachse (1991), 117(2), 45-7
CODEN: SOFWAF; ISSN: 0173-5500
DT Journal; General Review
LA English
CC 62-0 (Essential Oils and Cosmetics)
AB A review with 12 refs., summarizing the author's own work on the effects of solvents on the UV absorbance properties of **sunscreen** compds. and their stability to photolysis.
ST **sunscreen** efficacy stability review
IT Sunburn and Suntan
(**sunscreens**, efficacy and stability of)

L189 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1990:558420 CAPLUS
DN 113:158420
TI Interpretation and evaluation: spectroscopic data of **sunscreens**
AU **Shaath, Nadim A.**; Griffin, Peter M.; Andemicael, Gideon I.; Agrapidis-Paloympis, Louise E.
CS Felton Worldwide Inc., Brooklyn, NY, USA
SO Cosmetic Science and Technology Series (1990), 10(Sunscreens: Dev., Eval., Regul. Aspects), 537-607
CODEN: CSTSEV; ISSN: 0887-6541
DT Journal; General Review
LA English
CC 62-0 (Essential Oils and Cosmetics)
AB A review with 4 refs. Mol. structure, mol. formula, mol. wt., and operating conditions used to obtain the spectra of **sunscreens** are listed and discussed.
ST review **sunscreen** UV spectra
IT Ultraviolet and visible spectra
(of **sunscreens**)
IT Sunburn and Suntan
(**sunscreens**, spectroscopic data of)

L189 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1990:558419 CAPLUS
DN 113:158419
TI Modern analytical techniques in the **sunscreen** industry
AU **Shaath, Nadim A.**; Griffin, Peter M.; Andemicael, Gideon I.
CS Felton Worldwide Inc., Brooklyn, NY, USA
SO Cosmetic Science and Technology Series (1990), 10(Sunscreens: Dev., Eval., Regul. Aspects), 505-36
CODEN: CSTSEV; ISSN: 0887-6541
DT Journal; General Review
LA English
CC 62-0 (Essential Oils and Cosmetics)
Section cross-reference(s): 80
AB A review with 26 refs. on methods for anal. of **sunscreen** chems. and **sunscreen** cosmetic formulations.
ST review **sunscreen** analysis
IT Sunburn and Suntan
(**sunscreens**, methods for anal. of)

L189 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2003 ACS
AN 1990:538299 CAPLUS
DN 113:138299
TI Quality control of **sunscreens**
AU **Shaath, Nadim A.**
CS Felton Worldwide Inc., Brooklyn, NY, USA
SO Cosmetic Science and Technology Series (1990), 10(Sunscreens: Dev., Eval., Regul. Aspects), 483-503

CODEN: CSTSEV; ISSN: 0887-6541

DT Journal; General Review
LA English
CC 62-0 (Essential Oils and Cosmetics)
AB A review with 15 refs. discussing the various **sunscreens** used,
their phys. and chem. properties, and anal.
ST review **sunscreen** quality control
IT Quality control
(of **sunscreens**)
IT Sunburn and Suntan
(**sunscreens**, quality control of)

L189 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1990:538296 CAPLUS
DN 113:138296
TI The chemistry of **sunscreens**
AU **Shaath, Nadim A.**
CS Felton Worldwide Inc., Brooklyn, NY, USA
SO Cosmetic Science and Technology Series (1990), 10 (Sunscreens: Dev.,
Eval., Regul. Aspects), 211-33
CODEN: CSTSEV; ISSN: 0887-6541
DT Journal; General Review
LA English
CC 62-0 (Essential Oils and Cosmetics)
AB A review with 28 refs. discussing the classification of **sunscreens**
, mechanism of action and **UV filters** used, etc.
ST review **sunscreen**
IT Sunburn and Suntan
(**sunscreens**, chem. of)

L189 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1990:484619 CAPLUS
DN 113:84619
TI Cosmetic Science and Technology Series Vol. 10: **Sunscreens:**
Development, Evaluation, and Regulatory Aspects
AU Lowe, Nicholas J.; **Shaath, Nadim A.**; Editors
CS USA
SO (1990) Publisher: (Dekker, New York, N. Y.), 624 pp.
DT Book
LA English
CC 62-4 (Essential Oils and Cosmetics)
AB Unavailable
ST book **sunscreen**
IT Sunburn and Suntan
(**sunscreens**, development and evaluation of)

L189 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1990:484601 CAPLUS
DN 113:84601
TI Evolution of modern **sunscreen** chemicals
AU **Shaath, Nadim A.**
CS Felton Worldwide Inc., Brooklyn, NY, USA
SO Cosmetic Science and Technology Series (1990), 10 (Sunscreens: Dev.,
Eval., Regul. Aspects), 3-35
CODEN: CSTSEV; ISSN: 0887-6541
DT Journal; General Review
LA English
CC 62-0 (Essential Oils and Cosmetics)
AB A review with 71 refs. discussing the use of various **sunscreen**
chems. and structure-activity studies.
ST review **sunscreen**
IT Sunburn and Suntan
(**sunscreens**)

L189 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1990:83824 CAPLUS

DN 112:83824

TI Analysis of **sunscreen** chemicals. Separation and identification techniques

AU **Shaath, Nadim A.**

CS Felton Worldwide, Brooklyn, NY, USA

SO Cosmetics & Toiletries (1989), 104(11), 75-7, 80, 82, 84

CODEN: CTOIDG; ISSN: 0361-4387

DT Journal; General Review

LA English

CC 62-0 (Essential Oils and Cosmetics)

AB A review with 13 refs. on TLC, gas chromatog., and HPLC for the anal. of **sunscreens** in formulations.

ST review **sunscreen** analysis

IT Sunburn and Suntan
(**sunscreens**, anal. of)

L189 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1988:81792 CAPLUS

DN 108:81792

TI The effect of solvents on the ultraviolet absorbance of **sunscreens**

AU Agrapidis-Paloympis, Louise E.; Nash, Robert A.; **Shaath, Nadim A.**

CS St. John's Univ., Jamaica, NY, 11439, USA

SO Journal of the Society of Cosmetic Chemists (1987), 38(4), 209-21

CODEN: JSCCA5; ISSN: 0037-9832

DT Journal

LA English

CC 62-4 (Essential Oils and Cosmetics)

AB The efficacy of **sunscreens** is often affected by the solvents in which they are dissolved. The UV absorption spectra of 13 UVA and UVB **sunscreens** were detd. in 12 solvents of varying polarity and cosmetic interest. Changes in both the wavelengths of max. absorbance (λ_{max}) and molar absorptivity (ϵ) were obsd. for many of the **sunscreen**-solvent systems studied. Obsd. hypsochromic and bathochromic shifts in λ_{max} for a no. of **sunscreens** were related to their structure and polarity. Polar solvents shifted the λ_{max} of polar **sunscreens** to shorter wavelengths and shifted less polar **sunscreens** to longer wavelengths. Ortho-substituted **sunscreen** chem., such as salicylates and anthranilates experienced a min. or no UV absorbance shift. With the exception of p-aminobenzoic acid, most **sunscreens** showed increased absorbance in both polar and nonpolar solvents and decreased absorbance in semi-polar solvents, such as hexylene glycol and C12-15 alcs. benzoate. The results of this study should aid the cosmetic chemist in selecting appropriate solvents and vehicles for **sunscreen** chem.

ST UV absorption **sunscreen** solvent

IT Paraffin oils

RL: BIOL (Biological study)

(UV absorption of **sunscreens** in relation to)

IT Ultraviolet and visible spectra

(of **sunscreens**, solvent effect on)

IT Solvent effect

(on UV spectra of **sunscreens**)

IT Molecular structure-property relationship

(UV spectra, of **sunscreens**)

IT Sunburn and Suntan

(**sunscreens**, UV spectra of, solvent effect on)

IT 65-85-0D, C12-15 alkyl esters

RL: BIOL (Biological study)

(UV absorption by **sunscreens** in relation to)

IT 107-41-5 110-27-0, Isopropyl myristate 110-54-3, properties 110-80-5
111-77-3 142-91-6, Isopropyl palmitate

RL: BIOL (Biological study)
 (UV absorption of **sunscreens** in relation to)
 IT 57-55-6, properties 64-17-5, properties
 RL: PRP (Properties)
 (UV absorption of **sunscreens** in relation to)
 IT 118-56-9, Homomenthyl salicylate 131-53-3, Dioxybenzone 131-57-7,
 Oxybenzone 134-09-8, Menthyl anthranilate 150-13-0, PABA 4065-45-6,
 Sulisobenzene 5466-77-3 6197-30-4 6969-49-9, Octyl salicylate
 10377-95-4 58817-05-3, Octyl dimethyl-p-aminobenzoate 58882-17-0
 112725-59-4
 RL: PROC (Process)
 (UV absorption of, as **sunscreens**, solvent effect on)

L189 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2003 ACS
 AN 1987:502422 CAPLUS
 DN 107:102422
 TI On the theory of ultraviolet absorption by **sunscreen** chemicals
 AU **Shaath, Nadim A.**
 CS Felton Worldwide, Brooklyn, NY, 11237, USA
 SO Journal of the Society of Cosmetic Chemists (1987), 38(3), 193-207
 CODEN: JSCCA5; ISSN: 0037-9832
 DT Journal; General Review
 LA English
 CC 62-0 (Essential Oils and Cosmetics)
 AB A review discussion with 31 refs. on a simplified qual. approach suitable
 for prediction of the direction of wavelength shifts in the UV spectra of
sunscreens. Wavelength shifts at max. absorption due to changes
 in the chem. structure of a **sunscreen**, or to solvent or pH
 effects in a cosmetic formulation, are discussed.
 ST review **sunscreen** UV absorption
 IT Sunburn and Suntan
 (**sunscreens**, UV absorption by)

L189 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2003 ACS
 AN 1987:464607 CAPLUS
 DN 107:64607
 TI The analysis of **sunscreen** chemicals. Part 1. Quality control
 procedures for **sunscreen** chemicals
 AU **Shaath, Nadim A.**
 CS Felton Worldwide, Brooklyn, NY, USA
 SO Cosmetics & Toiletries (1987), 102(3), 69-72, 76-8, 80-1
 CODEN: CTOIDG; ISSN: 0361-4387
 DT Journal; General Review
 LA English
 CC 62-0 (Essential Oils and Cosmetics)
 AB A review with 27 refs. on the quality control procedures required for the
 anal. of **sunscreen** raw materials.
 ST review **sunscreen** quality control
 IT Sunburn and Suntan
 (**sunscreens**, quality control of, methods for)

L189 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2003 ACS
 AN 1987:464605 CAPLUS
 DN 107:64605
 TI Encyclopedia of UV absorbers for **sunscreen** products
 AU **Shaath, Nadim A.**
 CS Felton Worldwide, Brooklyn, NY, USA
 SO Cosmetics & Toiletries (1987), 102(3), 21-39
 CODEN: CTOIDG; ISSN: 0361-4387
 DT Journal; General Review
 LA English
 CC 62-0 (Essential Oils and Cosmetics)
 AB A review with 6 refs. discussing the phys. and chem. properties,
 identification, toxicity, etc., of UV absorbers for **sunscreen**

products.

ST review **sunscreen**; UV absorber review

IT Sunburn and Suntan

(**sunscreens**, UV absorbers, encyclopedia of)

L189 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2003 ACS

AN 1986:212986 CAPLUS

DN 104:212986

TI The chemistry of **sunscreens**

AU **Shaath, Nadim A.**

CS Felton Int., Brooklyn, NY, USA

SO Cosmetics & Toiletries (1986), 101(3), 55-62, 64, 67-70

CODEN: CTOIDG; ISSN: 0361-4387

DT Journal; General Review

LA English

CC 62-0 (Essential Oils and Cosmetics)

AB A review with 37 refs. on chem. and photochem. properties of **sunscreens**. Design of **sunscreen** chems., their anal., and classification are discussed.

ST review **sunscreen**

IT Sunburn and Suntan

(**sunscreens**, chem. of)

L189 ANSWER 16 OF 17 COMPENDEX COPYRIGHT 2003 EEI

AN 1991(2):18600 COMPENDEX DN 910214855

TI Evolution of **sunscreen** chemicals.

AU **Shaath, Nadim A.** (Felton Worldwide, New York, NY, USA)

MT Proceedings of the ACS Division of Polymeric Materials: Science and Engineering.

ML Washington, DC, USA

MD 26 Aug 1990-31 Aug 1990

SO Polymeric Materials Science and Engineering, Proceedings of the ACS Division of Polymeric Materials Science and Engineering v 63. Publ by ACS, Books & Journals Division, Washington, DC, USA. p 598-599

CODEN: PMSEDG ISSN: 0743-0515

PY 1990

MN 13632

DT Conference Article

TC Application; General Review

LA English

AB The first reported use of **sunscreens** in the world was in 1928 in the United States with the commercial introduction of an emulsion containing two **sunscreening** chemicals, benzyl salicylate and benzyl cinnamate. **Sunscreens** have originated from both academic and industrial research laboratories with completely diverse uses. The cost, safety and marketability of the new filter have had a dramatic impact on the evolution of the current approved list of **sunscreen** chemicals regardless of their efficacy, degree and nature of their protection. 11 Refs.

CC 804 Chemical Products; 461 Biotechnology; 741 Optics & Optical Devices; 913 Production Planning & Control

CT *ESTERS:Emulsions; ULTRAVIOLET RADIATION:Filters; CONSUMER PRODUCTS:Raw Materials; BIOLOGICAL MATERIALS:Skin

ST **SUNSCREEN** CHEMICALS; **CHEMICAL UV FILTERS**; **COSMETICS**

L189 ANSWER 17 OF 17 TOXCENTER COPYRIGHT 2003 ACS

AN 1987:136676 TOXCENTER

CP Copyright 2003 ACS

DN CA10708064605M

TI Encyclopedia of UV absorbers for **sunscreen** products

AU **Shaath, Nadim A.**

CS Felton Worldwide, Brooklyn, NY, USA.

SO Cosmetics & Toiletries, (1987) Vol. 102, No. 3, pp. 21-39.

CODEN: CTOIDG. ISSN: 0361-4387.

CY UNITED STATES

DT Journal

FS CAPLUS

OS CAPLUS 1987:464605

LA English

ED Entered STN: 20011116

Last Updated on STN: 20021029

AB A review with 6 refs. discussing the phys. and chem. properties,
identification, toxicity, etc., of UV absorbers for **sunscreen**
products.

CC 62-0

ST Miscellaneous Descriptors

review **sunscreen**; UV absorber review

=>

FILE 'MEDLINE, CAPLUS, KOSMET, SCISEARCH' ENTERED AT 15:13:41 ON 22 APR 2003

L1 2515 FILE MEDLINE
L2 9157 FILE CAPLUS
L3 1585 FILE KOSMET
L4 2420 FILE SCISEARCH
TOTAL FOR ALL FILES
L5 15677 S SUNSCREEN? OR SUNBLOCK? OR SUN-SCREEN? OR SUN-BLOCK? OR (UV? (
L6 2142 FILE MEDLINE
L7 2496 FILE CAPLUS
L8 3 FILE KOSMET
L9 2473 FILE SCISEARCH
TOTAL FOR ALL FILES
L10 7114 S RERADIAT? OR RE-RADIAT? OR RE-DIRECT? OR REDIRECT?
L11 0 FILE MEDLINE
L12 0 FILE CAPLUS
L13 0 FILE KOSMET
L14 0 FILE SCISEARCH
TOTAL FOR ALL FILES
L15 0 S L5 AND L10

FILE 'USPATFULL, PCTFULL, CAPLUS, PHIC, PHAR' ENTERED AT 15:16:31 ON 22 APR 2003

L16 161 FILE USPATFULL
L17 85 FILE PCTFULL
L18 0 FILE CAPLUS
L19 0 FILE PHIC
L20 0 FILE PHAR
TOTAL FOR ALL FILES
L21 246 S L15
L22 13 FILE USPATFULL
L23 11 FILE PCTFULL
L24 0 FILE CAPLUS
L25 0 FILE PHIC
L26 0 FILE PHAR
TOTAL FOR ALL FILES
L27 24 S L5 (3S) L10
E SHAATH/AU
L28 0 FILE USPATFULL
L29 1 FILE PCTFULL
L30 38 FILE CAPLUS
L31 0 FILE PHIC
L32 0 FILE PHAR
TOTAL FOR ALL FILES
L33 39 S E3 OR E6-E8

FILE 'AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUIRE, BABS, BIOCOMMERCE, BIOTECHNO, CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CEN, CERAB, CIN, COMPENDEX, CONFSCI, COPPERLIT, CORROSION, ENCOMPLIT, ENCOMPLIT2, FEDRIP, GENBANK, INSPEC, INSPHYS, INVESTEXT, IPA, ...' ENTERED AT 15:26:56 ON 22 APR 2003

L34 0 FILE AGRICOLA
L35 0 FILE ALUMINIUM
L36 0 FILE ANABSTR
L37 0 FILE APOLLIT
L38 0 FILE AQUIRE
L39 0 FILE BABS
L40 0 FILE BIOCOMMERCE
L41 0 FILE BIOTECHNO
L42 0 FILE CABA
L43 0 FILE CAOLD
L44 38 FILE CAPLUS
L45 0 FILE CBNB

L46	0	FILE	CEABA-VTB
L47	0	FILE	CEN
L48	0	FILE	CERAB
L49	0	FILE	CIN
L50	1	FILE	COMPENDEX
L51	1	FILE	CONFSCI
L52	0	FILE	COPPERLIT
L53	0	FILE	CORROSION
L54	0	FILE	ENCOMPLIT
L55	0	FILE	ENCOMPLIT2
L56	0	FILE	FEDRIP
L57	0	FILE	GENBANK
L58	0	FILE	INSPEC
L59	0	FILE	INSPHYS
L60	0	FILE	INVESTEXT
L61	1	FILE	IPA
L62	0	FILE	JICST-EPLUS
L63	1	FILE	KOSMET
L64	0	FILE	METADEX
L65	0	FILE	NAPRALERT
L66	0	FILE	NIOSHTIC
L67	0	FILE	NTIS
L68	0	FILE	PAPERCHEM2
L69	0	FILE	PASCAL
L70	0	FILE	PROMT
L71	0	FILE	RAPRA
L72	0	FILE	RUSSCI
L73	2	FILE	SCISEARCH
L74	0	FILE	STANDARDS
L75	0	FILE	TULSA
L76	0	FILE	TULSA2
L77	0	FILE	USAN
L78	0	FILE	WELDASEARCH
L79	0	FILE	WSCA
L80	0	FILE	ADISCTI
L81	0	FILE	ADISINSIGHT
L82	0	FILE	ADISNEWS
L83	0	FILE	BIOBUSINESS
L84	3	FILE	BIOSIS
L85	0	FILE	CANCERLIT
L86	0	FILE	DGENE
L87	0	FILE	DIOGENES
L88	1	FILE	DRUGB
L89	0	FILE	DRUGLAUNCH
L90	0	FILE	DRUGMONOG2
L91	0	FILE	DRUGNL
L92	0	FILE	DRUGU
L93	0	FILE	DRUGUPDATES
L94	0	FILE	EMBAL
L95	1	FILE	EMBASE
L96	0	FILE	ESBIOBASE
L97	0	FILE	IFIPAT
L98	0	FILE	LIFESCI
L99	0	FILE	MEDICONF
L100	1	FILE	MEDLINE
L101	0	FILE	NUTRACEUT
L102	0	FILE	PCTGEN
L103	0	FILE	PHAR
L104	0	FILE	PHARMAML
L105	0	FILE	PHIC
L106	0	FILE	PHIN
L107	0	FILE	SYNTHLINE
L108	3	FILE	TOXCENTER
L109	0	FILE	USPATFULL

L110	0	FILE USPAT2
TOTAL FOR ALL FILES		
L111	53	S L33
L112	0	FILE AGRICOLA
L113	0	FILE ALUMINIUM
L114	0	FILE ANABSTR
L115	0	FILE APOLLIT
L116	0	FILE ACQUIRE
L117	0	FILE BABS
L118	0	FILE BIOCOMMERCE
L119	0	FILE BIOTECHNO
L120	0	FILE CABA
L121	0	FILE CAOLD
L122	15	FILE CAPLUS
L123	0	FILE CBNB
L124	0	FILE CEABA-VTB
L125	0	FILE CEN
L126	0	FILE CERAB
L127	0	FILE CIN
L128	1	FILE COMPENDEX
L129	0	FILE CONFSCI
L130	0	FILE COPPERLIT
L131	0	FILE CORROSION
L132	0	FILE ENCOMPLIT
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L168	0	FILE DRUGMONOG2
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L185 0 FILE SYNTHLINE
L186 1 FILE TOXCENTER
L187 0 FILE USPATFULL
L188 0 FILE USPAT2

TOTAL FOR ALL FILES

L189 17 S L111 AND L5

FILE 'CAPLUS, COMPENDEX, TOXCENTER' ENTERED AT 15:33:01 ON 22 APR 2003

L190 15 FILE CAPLUS
L191 1 FILE COMPENDEX
L192 1 FILE TOXCENTER

TOTAL FOR ALL FILES

L193 17 S L189
L194 0 FILE CAPLUS
L195 0 FILE COMPENDEX
L196 0 FILE TOXCENTER

TOTAL FOR ALL FILES

L197 0 S L193 AND (L10 OR DISCIPAT? OR REFLEC?)

L353 ANSWER 52 OF 59 USPATFULL

DETD A sensor 522 could potentially be distracted by all of the reflected rays. Therefore, in accordance with a feature of the present invention, a UV absorbing **filter** 524 removes all rays except for the desired ones 520 **reradiated** from material 518 in the the reference grid 507. Note that visible light rays 526 passing through the film 509 and bearing the film image is also passed by the filter 524 and detected by the sensor 522.

PI US 5745143 19980428

ATION IN THE RANGE OF ABOUT

295-315 NM AND BLOCK UVA RADIATION IN THE RANGE OF ABOUT 365-395 NM.

INVENTOR(S):

Fisher; Gary J., Ypsilanti, MI, US
Kang; Sewon, Ann Arbor, MI, US
Voorhees; John J., Ann Arbor, MI, US

PATENT ASSIGNEE(S):

Unassigned

AGENT:

Hopgood, Calimafde Judlowe & Mondolino, 60 East 42nd Street, New York, NY, 10165, US

	NUMBER	PK	DATE
PATENT INFORMATION:	US 2002028185	A1	20020307
APPLICATION INFORMATION:	US 2001-900535		20010706

	NUMBER	DATE
PRIORITY APPLN. INFO.:	US 2000-216244P	20000706 (Provisional)
FAMILY INFORMATION:	US 2002028185	20020307
DOCUMENT TYPE:	Utility	
	Patent Application - First Publication	
FILE SEGMENT:	CHEMICAL	
	APPLICATION	
NUMBER OF CLAIMS:	10 12 Figure(s).	

DESCRIPTION OF FIGURES:

FIG. 1 depicts an overlay of the wavelength distributions of the noon summer sun, a solar simulator used in the following experiments, and an FS40 brand UV lamp filtered with a Kodacell or WG320 filter.

FIGS. 2A and 2B depict photomicrographs of stained human in vivo skin samples from subjects exposed to varying amounts of solarsimulated radiation, the amounts being defined by the resulting MED.

FIGS. 3A, 3B, and 3C depict the dose-dependent induction of collagenase (MMP-1) (3A) and the 92 kDa gellatinase (3B) as a function of MED, and the reduction in procollagen biosynthesis (3C) also as a function of MED, when using the solar simulator having the radiation profile as shown in FIG. 1.

FIG. 4A depicts our results in determining the wavelengthrelated dependence of collagenase induction.

FIG. 4B shows the wavelengths transmitted through each of a number of different filters.

FIG. 5 shows overlaid the separate wavelengths we obtained using our solar simulator and various filters.

FIGS. 6A, 6B, and 6C depicts the induction of the 92 kDa gelatinase as a function of UV wavelength for various wavelength regions.

FIG. 7 depicts graphically the contribution of each of UVA and UVB to the induction of the 92 kDa gelatinase.

FIG. 8 depicts the variation in the irradiance of the sun between noon and either early morning or late afternoon.

FIG. 9 depicts the UV absorbance of two specific sunscreen compositions.

FIG. 10 depicts the induction of collagenase mRNA as a function of UV wavelength in the UVA region.

FIG. 11 depicts the induction of collagenase mRNA as a function of UV wavelength in the UVB region.

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SUMM

[0006] Present **sunscreen** formulations now include a mixture of separate compounds for absorbing UVA and UVB radiation. Commercially approved preparations include a UVB blocker, such as a p-methoxycinnamate or an aminobenzoate, and a UVA blocker, such as a benzene or an anthranilate. These compounds generally absorb the incoming UV photon and **reradiate** a lower energy photon. While typically less cosmetically desirable, physical blockers, such as zinc oxide, generally provide better protection, at least in part because most people do not apply a sufficient amount of **sunscreen**, or

apply it unevenly. In theory, an amount of 2 mg/cm.² of **sunscreen** per skin area is to be applied to maintain the sun protection factor (SPF) value, although the amount typically applied in practice by individuals in recreational settings is much less.

DETD [0034] It may be difficult to formulate a cosmetically acceptable **sunscreen** for the upper UVA1 region. As described by N. A. Shaath in **Sunscreens** (op cit.; Chpt. 15), chemical **sunscreens**, as opposed to physical **sunscreens** like zinc oxide and titanium oxide, absorb a photon and **reradiate** the energy as a longer wavelength: very low energy wavelengths over 800 nm as heat (which is small compared with the heat input to the skin from the sun); intermediate energy wavelengths in the visible region (fluorescence), and/or low UV wavelengths (380-450 nm). A **sunscreen** that appears to fluoresce may be cosmetically unacceptable. Additionally, physical **sunscreens** can be cosmetically unacceptable because of their whitish appearance. Based on our findings, it will be important to assure that the energy is not **reradiated** in the region of >360-400 nm, for both UVA **sunscreens** and UVB **sunscreens**. Thus, a presently available **sunscreen**, whether a UVB or a UVA blocker, may **reradiate** in the region of >360 nm to 400 nm that we have found is harmful to the collagen matrix of the skin.

DETD [0035] To formulate a desirable **sunscreen**, a chemist of ordinary skill in the **sunscreen** art will first make estimates of the structure of the compound required to absorb in the desired wavelength region, the structure typically focusing on the number and type of conjugated bonds, the presence and/or absence of electron-stabilizing groups, and the like. The candidate compound is then tested in a spectrophotometer to determine at which wavelength(s) it absorbs light (UV here), and then, preferably according to this invention, at what wavelengths the absorbed light is **re-radiated**. As noted, the vehicle/medium in which the compound is dispersed will affect the wavelengths absorbed. For example, for acidic compounds dispersed in an alkaline medium, the medium assists in the formation of anions that tend to increase delocalization of electrons, thereby decreasing the energy required for the electronic transition in the UV spectrum (a "bathochromic" shift to longer wavelengths, here towards the 400 nm range). Likewise, a not strongly polar compound may have an excited state that adds to the molecule's polarity, in which case a polar solvent stabilizes the transition state and a bathochromic shift to longer wavelengths occurs. The more efficient the electron delocalization, the higher the extinction coefficient of the compound. Although it is most desirable to have an absorption maximum λ_{max} and extinction coefficient (ϵ) not affected by the solvent(s), the medium may be used advantageously. A molecule may absorb and **re-radiate** only a few times before it is destroyed, or it may be able to do this many times before being degraded. The efficiency of a candidate **sunscreen** molecule at absorbing light of a desired wavelength is its extinction coefficient. Further, for a compound that is perhaps less efficient than desirable, it is beneficial to put as much of the compound in the composition to the extent that it does not cause burning or stinging of the skin, is not toxic, and the like. Still further, as mentioned above, these organic compounds typically **re-radiate** the energy absorbed, sometimes in the infrared, and sometimes in the visible (and sometimes in the low UV region, which we have found is detrimental). While many would not consider a fluorescing compound to be cosmetically acceptable, children, teens, and others may likely consider such a compound as stylish. Further, the use of a compound that **re-radiates** in the visible spectrum would aid in determining whether a sufficient amount of the compound has been applied, and whether the coverage is complete (e.g., non-covered areas would not fluoresce). Additionally, if the fluorescence is not very strong, it is

less likely that it would be seen in full sunlight.
CLM What is claimed is:
8. In the manufacture of a **sunscreen** by determining the absorbance of a candidate compound for particular wavelengths when the candidate compound is dispersed in a given medium, the improvement comprising determining whether said candidate compound **re-radiates** in the region of greater than about 360 nm up to about 400 nm upon exposure to sunlight.

ACCESSION NUMBER: 2002:47994 USPATFULL
TITLE: UVA (> 360-400) and UVB (300-325) specific sunscreens
INVENTOR(S): Fisher, Gary J., Ypsilanti, MI, UNITED STATES
Voorhees, John J., Ann Arbor, MI, UNITED STATES
Kang, Sewon, Ann Arbor, MI, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002028185	A1	20020307
APPLICATION INFO.:	US 2001-900535	A1	20010706 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-216244P	20000706 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	Hopgood, Calimafde, Judlowe & Mondolino, 60 East 42nd Street, New York, NY, 10165	
NUMBER OF CLAIMS:	10	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	17 Drawing Page(s)	
LINE COUNT:	445	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=>

(FILE 'HOME' ENTERED AT 15:12:52 ON 22 APR 2003)

FILE 'MEDLINE, CAPLUS, KOSMET, SCISEARCH' ENTERED AT 15:13:41 ON 22 APR 2003

L1 2515 FILE MEDLINE
L2 9157 FILE CAPLUS
L3 1585 FILE KOSMET
L4 2420 FILE SCISEARCH
TOTAL FOR ALL FILES
L5 15677 S SUNSCREEN? OR SUNBLOCK? OR SUN-SCREEN? OR SUN-BLOCK? OR (UV?
L6 2142 FILE MEDLINE
L7 2496 FILE CAPLUS
L8 3 FILE KOSMET
L9 2473 FILE SCISEARCH
TOTAL FOR ALL FILES
L10 7114 S RERADIAT? OR RE-RADIAT? OR RE-DIRECT? OR REDIRECT?
L11 0 FILE MEDLINE
L12 0 FILE CAPLUS
L13 0 FILE KOSMET
L14 0 FILE SCISEARCH
TOTAL FOR ALL FILES
L15 0 S L5 AND L10

FILE 'USPATFULL, PCTFULL, CAPLUS, PHIC, PHAR' ENTERED AT 15:16:31 ON 22 APR 2003

L16 161 FILE USPATFULL
L17 85 FILE PCTFULL
L18 0 FILE CAPLUS
L19 0 FILE PHIC
L20 0 FILE PHAR
TOTAL FOR ALL FILES
L21 246 S L15
L22 13 FILE USPATFULL
L23 11 FILE PCTFULL
L24 0 FILE CAPLUS
L25 0 FILE PHIC
L26 0 FILE PHAR
TOTAL FOR ALL FILES
L27 24 S L5 (3S) L10
E SHAATH/AU
L28 0 FILE USPATFULL
L29 1 FILE PCTFULL
L30 38 FILE CAPLUS
L31 0 FILE PHIC
L32 0 FILE PHAR
TOTAL FOR ALL FILES
L33 39 S E3 OR E6-E8

FILE 'AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUIRE, BABS, BIOCOMMERCE, BIOTECHNO, CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CEN, CERAB, CIN, COMPENDEX, CONFSCI, COPPERLIT, CORROSION, ENCOMPLIT, ENCOMPLIT2, FEDRIP, GENBANK, INSPEC, INSPHYS, INVESTEXT, IPA, ...' ENTERED AT 15:26:56 ON 22 APR 2003

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L41 0 FILE BIOTECHNO
L42 0 FILE CABA
L43 0 FILE CAOLD
L44 38 FILE CAPLUS

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L79	0	FILE	WSCA
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L109	0	FILE	USPATFULL
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 L186 1 FILE TOXCENTER
 L187 0 FILE USPATFULL
 L188 0 FILE USPAT2

TOTAL FOR ALL FILES

L189 17 S L111 AND L5

FILE 'CAPLUS, COMPENDEX, TOXCENTER' ENTERED AT 15:33:01 ON 22 APR 2003

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 L191 1 FILE COMPENDEX
 L192 1 FILE TOXCENTER

TOTAL FOR ALL FILES

L193 17 S L189

L194 0 FILE CAPLUS
 L195 0 FILE COMPENDEX
 L196 0 FILE TOXCENTER

TOTAL FOR ALL FILES

L197 0 S L193 AND (L10 OR DISCIPAT? OR REFLEC?)

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 COMPENDEX, CONFSCI, COPPERLIT, CORROSION, ENCOMPLIT, ENCOMPLIT2, FEDRIP,
 GENBANK, INSPEC, INSPHYS, INVESTEXT, IPA, ...' ENTERED AT 15:35:50 ON 22
 APR 2003

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 L205 5 FILE BIOTECHNO
 L206 8 FILE CABA
 L207 0 FILE CAOLD
 L208 184 FILE CAPLUS
 L209 17 FILE CBNB
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 L214 27 FILE COMPENDEX
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L351	13	FILE	USPATFULL

L352 0 FILE USPAT2
TOTAL FOR ALL FILES
L353 59 S L5 (5S) (L10 OR DISCIPAT?)